SONY VAIO

# VGN-SZ390P CTO Series

## VAIO® SZ Series Notebook PC

**An inspiring fusion of mobility, power and style.**

### CUTTING-EDGE PERFORMANCE

The sleekly designed, lightweight VAIO® SZ Notebook optimizes mobility while offering superior performance on every front, starting with its use of optional Intel® Centrino® Duo mobile technology for advanced multi-tasking potential. It also boasts hardware solutions that will power you through your most demanding tasks, including a super-fast 5400rpm Serial ATA hard drive and advanced DDR2 memory for ultra high-speed computing.

### PREMIUM PORTABILITY

The VAIO® SZ Notebook delivers intelligent mobile design while placing a priority on usability and performance. This slim, lightweight PC measures a mere 1" thin[15], with a superb 13.3" widescreen display[11] with XBRITE™ LCD technology, long battery life[7] and a generous, comfortable keyboard.

### UNIQUE AND INNOVATIVE FEATURES

Exclusive to VAIO® PCs, the revolutionary Hybrid Graphic System lets you switch between an internal graphics chip for optimal power consumption and an external graphics chip for even more robust performance. In addition to PC card support, it supports ExpressCard™, an emerging standard in smaller, faster PC card solutions, making it ideal for transfers of video and large files.

**The slim, lightweight VAIO® SZ Notebook delivers an inspiring blend of intelligent mobile design, cutting-edge performance and contemporary style. With a 13.3" widescreen display[11], long battery life[7], Intel® Centrino® Duo mobile technology, revolutionary Hybrid Graphic System and more, you can work faster, play longer and get more from every moment with the VAIO SZ Notebook. The VAIO® SZ Notebook is a "Windows Vista™ Premium Ready" PC.**

Intel Centrino Duo Core 2 Duo inside

Microsoft Windows XP Professional

Designed for Windows XP

Windows Vista Capable

Windows Vista Premium Ready

cingular raising the bar

Bluetooth

XBRITE™

G-SENSOR

like.no.other™

# VGN-SZ390P CTO Series

## VAIO® SZ Series Notebook PC

## Specifications

### General

**Computer Type:** Notebook
**Type of Use:** Ultra Portable
**Action Buttons:** S1, S2 (programmable), Wireless LAN On/Off, Bluetooth® On/Off,
**Keyboard:** QWERTY (86 keys with 3mm stroke and 19.05mm pitch) Available in black or silver
**Pointing Device:** Electro-Static touch pad
**Security:** Trusted Platform Module (TPM) and Biometric Fingerprint Sensor or none

### Hardware

**Camera:** Built-in Camera and microphone

### Processor

**Type:** Intel® Core™ 2 Duo Processor T7600 (Configuration 1), Intel® Core™ 2 Duo Processor T7400 (Configuration 2), Intel® Core™ Duo 2 Processor T7200 (Configuration 3), Intel® Core™ 2 Duo Processor T5600 (Configuration 4) or Intel® Core™ 2 Duo Processor T5500 (Configuration 5)
**Speed:** 2.33GHz[1] (Configuration 1), 2.16GHz[1] (Configuration 2), 2GHz[1] (Configuration 3), 1.83GHz[1] (Configuration 4) or 1.66GHz[1] (Configuration 5)
**Front Side Bus Speed:** 667MHz
**L2 Cache:** 4MB (Configurations 1-3)
2MB (Configurations 4-5)

### Memory

**Type:** DDR2 (All Configurations)
**Installed:** 2GB (PC2-4200 1GB x 2) (Configuration 1), 1GB (PC2-4200 1GB x 1) (Configuration 2), 1GB (PC2-4200 512MB x 2) (Configuration 3), 512MB (PC2-4200 512MB x 1) (Configuration 4)
**Maximum:** 2GB (All Configurations)
**Speed:** 533MHz (All Configurations)

### Hard Drive

**Capacity:** 160GB[2] (Configuration 1), 120GB[2] (Configuration 2), 100GB[2] (Configuration 3) or 80GB[2] (Configuration 4)
**Speed:** 5400rpm
**Interface:** Serial ATA
**Impact Protection:** G-Sensor™ Shock Protection - Hard Disk Drive Protection

### Optical Drive #1

**DVD+R DL Write:** 2.4x max.
**DVD+R Write:** 4x max.
**DVD+RW Write:** 2.4x max.
**DVD-R Write:** 4x max.
**DVD-RW Write:** 2x max.
**CD-R Write:** 24x max.
**CD-RW Write:** 10x max.
**DVD±RW:** Yes[4]
**CD Read:** 24x max.
**DVD Read:** 8x max.
**DVD-R DL Write:** 2.4x max.
**DVD-RAM Read:** 5x max.

### Expansion Slots

**Multimedia Card Reader:** Memory Stick DUO™ with MagicGate® functionality, ExpressCard™/34 Slot 5-in-1 Memory Card Adaptor (VGP-MCA20) supporting Memory Stick®, Memory Stick PRO™, Secure Digital, xD-Picture Card, and MultiMediaCard (MMC), and PCMCIA (Type II/Type I card slot with CardBus support)

### Audio

**Sound System:** Sony® Sound Reality™ - Audio Enhancer

### Display

**Screen or Display Technology:** WXGA LCD
**Screen Size:** 13.3"[11]
**Resolution:** 1280x800
**XBRITE™ LCD Technology:** Yes

### Graphics

**Processor:** NVIDIA® GeForce™ Go 7400 and Intel® Graphics Media Accelerator 950
**Video RAM:** 128MB (NVIDIA® GeForce™ Go 7400) and 128MB (dynamically allocated shared RAM/Video memory) (Intel® Graphics Media Accelerator 950)
**Technology:** Hybrid Graphic System, TurboCache™[13]
**Chipset:** Intel® 945GM
**Interface:** VGA out w/ Smart Display Sensor

### Inputs and Outputs

**Ethernet Port:** 1
**Headphone Jack:** 1
**i.LINK® Interface:** 1 (4-pin[6] IEEE 1394)
**Memory Stick® Media Slot:** 1
**Modem Jack:** 1
**Microphone Input:** 1
**Port Replicator Connector(s):** 1 (Bottom)
**USB Port(s):** 2 (2.0 compliant)
**VGA Output(s):** 1
**DC-In:** 1

### Networking/Modem

**Ethernet Protocol:** Fast Ethernet (RJ-45)
**Ethernet Speed:** 10Base-T/100Base-TX
**Modem Type:** Integrated V.90/V.92 Modem (RJ-11)
**Wireless LAN:** Intel® PRO/Wireless 3945ABG Network Connection (802.11a/b/g)[3]
**Wireless WAN:** Integrated Wireless (WAN) Wide Area Network accessing Cingular Wireless National EDGE Network with SmartWi™ technology, (Wireless WAN and Wireless LAN radio do not transmit simultaneously)
**Bluetooth® Technology:** Integrated Bluetooth® Technology[5]

### Power

**Battery Type:** Standard Capacity Lithium-ion Battery (VGP-BPS2C) or Large Capacity Lithium-ion Battery (VGP-BPL2C)
**Estimated Battery Life:** 2.5-6.0 hours[7] (Standard Battery)
3.5-8.5 hours[7] (Large Capacity Battery)
**Power Requirements:** 105W+10%

### Software

**Operating System:** Microsoft® Windows® XP Professional with Service Pack 2
**Optional Software:** Adobe® Photoshop® Elements 4.0
Adobe® Premiere Elements
Adobe® Premiere Pro
Microsoft® Office 2003 Basic, Small Business or Professional Edition
**Internet Services:** America Online® (180-Day Subscription: For new users only)
**Anti-Virus and Recovery Software:** Norton® Internet Security™ 60-Day Trial
TrendMicro™ Anti-Spyware 30-Day Trial
VAIO® Recovery Wizard
VAIO® Support Central
VAIO® Security Center
VAIO® Update
**Supplied Software:** Microsoft® Works 8.5
60-Day Trial Version of Microsoft® Office 2003[10]
60-Day Trial Version of Microsoft® Digital Image Starter Edition 2006[16]
InterVideo® WinDVD®
Intuit® Quicken® 2006 New User Edition (Previous Quicken users may require additional upgrade)
Roxio® DigitalMedia SE
**Sony® Original Software:** Click to DVD® - DVD Creation
DVgate Plus™ - Digital Video
SonicStage® - Digital Music
SonicStage Mastering Studio™ - Audio Mastering & Remastering
VAIO Media™ - Network File Sharing
Trial Version of Sony® Popular Games

### Service and Warranty Information

**Limited Warranty:** 1 Year Limited Warranty[8]
**Telephone Support:** 1 year (toll-free technical telephone assistance, available 24/7)[9]
**Online and Email Support:** Support available from http://www.esupport.sony.com

### Dimensions

**Weight:** 4.07 lbs. with standard battery (weight is approximate and may vary)
**Measurements:** 12.5"(W) x 1.0"-1.5"(H) x 9.3"(D)

### Supplied Accessories

Standard Capacity Lithium-ion battery (VGP-BPS2C) or Large Capacity Lithium-ion battery (VGP-BPL2C)
AC adapter (VGP-AC19V10)
Memory Card Adapter (VGP-MCA20)[14]
Power Cord

### Optional Accessories

Port Replicator (VGP-PRSZ1)
Additional Standard Capacity Battery (VGP-BPS2C)
Large Capacity Battery (VGP-BPL2C)
AC Adapter (VGP-AC19V10)
1GB Memory Expansion Module (VGP-MM1GA)
512MB Memory Expansion Module (VGP-MM512M)
Battery Charger (VGP-BC1)
Bluetooth® Wireless Mouse (VGP-BMS30)
Neoprene Notebook & AC Adapter (VGP-AMC1)
40GB[2] Ultra-portable Hard Drive (VGP-UHDP04/N and VGP-UHDP04/R)

**Color:** Charcoal Black Magnesium Casing

1. GHz denotes microprocessor internal clock speed; other factors may affect application performance. CPU speed will be reduced under certain operating conditions.
2. GB means one billion bytes when referring to hard drive capacity. Accessible capacity may vary. A portion of hard disk space is reserved as a recovery partition.
3. Requires compatible wireless LAN access point, sold separately. Internet connection may require fees.
4. DVD Media/Formats are not universally compatible.
5. Interoperability among Bluetooth® devices varies.
6. i.LINK is a trademark of Sony used only to designate that a product contains an IEEE 1394 connector. All products with an i.LINK connector may not communicate with each other.
7. Actual battery life may vary based on product settings, usage patterns and environmental conditions.
8. See actual limited warranty for details. For a copy of Sony's warranty, please visit www.sony.com/pcsupport, call toll-free 888-476-6972 (888-4SONYPC), or write to Sony Electronics, 12451 Gateway Boulevard, Fort Myers, FL 33913.
9. For certain third party software applications, Sony provides first level Phone Support. Additional telephone support may be available from the applicable 3rd party vendor. Availability and schedule for any such support is determined by the applicable software vendor.
10. The Microsoft Office 2003 60-Day Trial software is intended for evaluation purposes only. This trial software is installed on your system and you must activate the software before you can use it. Product activation procedures will be detailed during initial launch of the software; activation requires Internet access. This software has an expiration date of 60 days from date of first use, at which time the software will operate under reduced-functionality mode, limiting end-use options and operations.
11. Viewable area measured diagonally.
12. Broadband Internet service required along with third-party services which may require a subscription fee or other service fee.
13. NVIDIA® TurboCache™ technology combines the size and bandwidth of video memory and dynamically available system memory for optimal system performance.
14. Does not support Memory Stick media and Memory Stick PRO™ media using the MagicGate™ function or high-speed data transfer. Supports memory cards with capacities up to 1GB. Does not support 5.0V SmartMedia media or the ID function of SmartMedia media with IDs. Does not support the SD Memory Card media copyright protection function. This adapter has been tested with only Sony® branded Memory Stick PRO™ media. Sony® branded Memory Stick PRO™ media is recommended for use with this adapter.
15. Measured at its narrowest point.
16. The Microsoft Digital Image Starter Edition 2006 60-Day Trial software included with this computer system is intended for evaluation purposes only. The software has been partially installed and you must complete installation of the software before you can use it. This software has an expiration date of 60 days from date of first use, at which time the software will operate under reduced-functionality mode, limiting end user options and operations.

Computer Interface: The computer industry lacks standards, and therefore, there are a multitude of varying software packages and add-on hardware options. This personal computer is not manufactured to operate any specific software, and Sony does not and cannot make any warranty or representation with respect to the performance of this product with any particular software packages and/or non-Sony add-on hardware options except those mentioned in this document. Sony hereby disclaims any representations or warranty that this product is compatible with any combination of products you may choose to connect. While Sony representatives or Sony authorized dealers may be able to assist you and may make recommendations, they are NOT authorized to vary or waive this disclaimer. Purchasers must determine for themselves the suitability and compatibility of the hardware and software in each and every particular instance. Software titles pre-installed on the Sony Notebook Computer are subject to change without notice. Simulated graphic shown on display. Pre-installed software may not be identical to retail versions or have all documentation. This product meets the standards of the International Energy Star Program for energy efficiency. Features and specifications are subject to change without notice. Non-metric weights and measurements are approximate.

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